

# 2009 HENRY GRANJON PRIZE

Category A: Joining and Fabrication Technology  
Dr.-Ing. Sergio T. Amancio Filho (Germany)



*PAPER: "Friction riveting: Development and analysis of a new joining technique for polymer-metal multi-material structures"*



Sergio T. Amancio Filho was awarded his B.Eng. Degree in Materials Engineering in 2000 by the Federal University of Sao Carlos (Brazil), after which he obtained an M.Sc. Honours Degree in Metallurgy through a joint program between the GKSS Research Centre, Germany, and the Federal University of Sao Carlos in 2002. His MSc thesis entitled, "*Friction Stir Welding of Dissimilar 2024-T351 and 6056-T6/T4 Aluminium Alloys*", was the first postgraduate academic thesis on friction stir welding to be published in South America. In June 2007, the Technical University of Hamburg-Harburg (Germany) awarded him a Doctorate in Joining Technology, the thesis for which he also won the Nordmetall Prize, sponsored by Nordmetall e.V. (Northern German Association of Metal and Electronic Industries) for the best Ph.D. thesis of 2007.

Since 2001, Dr.-Ing. Sergio T. Amancio Filho has been working at the GKSS Research Centre on joining technology of lightweight materials, as well as developing and investigating processes for metal-polymer joining. In this regard, he has so far been granted one patent and is awaiting decisions on nine (9) other patent applications for new joining processes for metal-polymer structures. He is currently a Postdoctoral Fellow in Materials Mechanics at the GKSS Institute of Materials Research.

Brazilian-born Dr.-Ing. Sergio T. Amancio Filho is also a reviewer for various scientific journals including IIW's *Welding in the World*.